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Weed et al.

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(54) **INSERTABLE PROBE**

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CPC ***A61B 5/04882*** (2013.01); ***A61B 5/04884*** (2013.01); ***A61B 5/4337*** (2013.01)

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See application file for complete search history.

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(57) **ABSTRACT**

A device and method for measuring the structural integrity and structural health of the female pelvic floor, or other lumenal organ, is disclosed. Said device comprises an insertable probe with a pressure chamber capable of distending the walls of said lumenal organ. The invention also comprises means for positioning the pressure chamber and adjusting its location along the lumen. Said device also comprises means for changing and recording the volume and pressure of a balloon which is part of the pressure chamber, and means for determining and recording the location of the walls of the balloon. Said device also comprises a means for integrating information obtained to determine important biomechanical information, such as stress-strain curves, which a medical clinician can use for diagnostic purposes. Said method comprises the insertion of said probe, the expansion and contraction of the pressure chamber under desired condition, and means for analyzing obtained data for increased usefulness to the clinician.

9 Claims, 10 Drawing Sheets